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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/033,768	12/26/2001	Michael J. Tanguay	534-CIP	1848
25559	7590 03/14/2003			
ATMI, INC.			EXAMINER	
7 COMMERCE DRIVE DANBURY, CT 06810			ZERVIGON, RUDY	
			ART UNIT	PAPER NUMBER
			1763	
			DATE MAILED: 03/14/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	mk
	10/033,768	TANGUAY, MICHAEL J.	
Office Action Symmary	Examiner	Art Unit	
File Coly	Rudy Zervigon	1763	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence address -	
A SHORTENED STATUTORY PERIOD FOR RETHE MALLING DATE OF THIS COMMUNICATION STATE OF THIS COMMUNICATION OF THE MALLING DATE OF THIS COMMUNICATION OF THE MALLING DATE OF	ON. FR 1.136(a). In no event, however, may and a control of the statutory minimum of the	reply be timely filed	lion.
<ul> <li>Failure to reply within the set or extended period for reply will, by s</li> <li>Any reply received by the Office later than three months after the n earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul> Status	tatute, cause the application to become nailing date of this communication, even	ABANDONED (35 U.S.C. § 133). If timely filed, may reduce any	
1) Responsive to communication(s) filed on	26 December 2001		
	This action is non-final.		
3) Since this application is in condition for al		atters, prosecution as to the merit	e ie
closed in accordance with the practice un Disposition of Claims			0.10
4) Claim(s) 1-50 is/are pending in the application	ation.		
4a) Of the above claim(s) 25-49 is/are with	drawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-24 and 50</u> is/are rejected.			
7)⊠ Claim(s) <u>4-24 and 50</u> is/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exan			
10) The drawing(s) filed on is/are: a) □ a			
Applicant may not request that any objection t			
11) The proposed drawing correction filed on		disapproved by the Examiner.	
If approved, corrected drawings are required in	• •		
12) The oath or declaration is objected to by the	Examiler.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C	§ 119(a)-(d) or (t).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docum			
2. Certified copies of the priority docum			
Copies of the certified copies of the application from the Internationa     See the attached detailed Office action for a	Bureau (PCT Rule 17.2(a))		
14) Acknowledgment is made of a claim for dom	estic priority under 35 U.S.C	. § 119(e) (to a provisional applica	ation).
a) ☐ The translation of the foreign language 15) ☐ Acknowledgment is made of a claim for dom			
Attachment(s)			
Motice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)   Motice of Draftsperson's Patent Drawing Review (PTO-948)   Motice of Draftsperson's Patent (s) (PTO-1449) Paper No.	) 5) Notice o	Summary (PTO-413) Paper No(s). Z. Informal Patent Application (PTO-152)	

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: I called Mr. Ryan to inquire on an election and to clarify additional issues. Mr Ryan elected group I, claims 1-24 without traverse. I also asked Mr. Ryan about claim 3 which depends from itself. Mr Ryan stated that claim 3 should depend from claim 2. I also asked Mr. Ryan about the un-numbered claim on page 28, line 9. Mr. Ryan confirmed that the claim is not numbered and that it should depend from claim 7. I am numbering the un-numbered claim as claim 50. I additionally brought to Mr. Ryan's attention the claim numbering on page 32.

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#### DETAILED ACTION

#### Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-24, 50, drawn to a wafer susceptor, classified in class 118, subclass 719.
  - II. Claims 25-49, drawn to a method of increasing the throughput of a single substrate deposition chamber, classified in class 427, subclass 446.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process, for example, an etching process.
- Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. During a telephone conversation with William Ryan on February 19, 2003 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-24, and 50. Affirmation of this election must be made by applicant in replying to this Office action. Claims 25-49 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

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## Claim Objections

1. Claims 4-24, and claim 50 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claims, or amend the claims to place the claims in proper dependent form, or rewrite the claims in independent form. Claim 5 depends from itself. The remaining claims depend from claim 5. Art-based rejections on claims 4-24 and 50 is impossible based on the present claim dependence.

# Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claims 1-24, and 50 are rejected under 35 U.S.C. 112, second paragraph, as being
  indefinite for failing to particularly point out and distinctly claim the subject matter which
  applicant regards as the invention.
- Claim 1-24, and 50 recite the limitation "said wafer holder" in lines 8-9 of claim 1. There
  is insufficient antecedent basis for this limitation in the claim.
- 4. Claims 4-24, and 50 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 5 depends from itself. The remaining claims depend from claim
- Art-based rejections on claims 4-24 and 50 is impossible based on the present claim dependence.

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### Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Suda et al. Suda teaches:
- 1. A wafer susceptor (90, wafer holder) for use in a substrate (5) processing system (Figure 1b, 2, 3), comprising:
  - a. at least one recess (mounting portions/recesses 92, 94) formed therein, with each recess (mounting portions/recesses 92, 94) is arranged and configured to hold at least one substrate (5) therein, wherein a combination of the wafer holder (90, wafer holder) and the at least one substrate (5) forms a composite substrate having uniform processing characteristics (column 23, lines 27-36).
- 2. The wafer susceptor (90, wafer holder) of claim 1, wherein the uniform processing characteristics (column 23, lines 27-36) of the composite substrate are achieved by matching

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physical properties (column 23, lines 27-36) of the wafer susceptor (90, wafer holder) and the substrates (5)

iii. 3. The wafer susceptor (90, wafer holder) of claim 3, wherein the physical properties (column 23, lines 27-36) comprise at least one property selected from the group consisting of: Thermal coefficient of expansion; Reflectivity; Thermal mass; Thermal conductivity; Electrical resistivity; Dielectric constant; Dielectric loss; Density; Hardness; and Emissivity

#### Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. USPat. 6,491,518; 6,200,387; 6,398,032; 5,417,767; 4,859,993; 5,931,662; 5,882,418; 5,170,990; 5,443,649; 4,872,554; 4,566,839; 6,341,703; US 2002/0015633A1.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Rudy Zervigon whose telephone number is (703) 305-1351. The examiner can normally be reached on a Monday through Thursday schedule from 8am through 7pm. The official after final fax phone number for the 1763 art unit is (703) 872-9311. The official before final fax phone number for the 1763 art unit is (703) 872-9310. Any Inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Chemical and Materials Engineering art unit receptionist at (703) 308-0661. If the examiner can not be reached please contact the examiner's supervisor, Gregory L. Mills, at (703) 308-1633.

PRIMARY EXAMINER